

## Product datasheet for RC201045

### PSMC3IP (NM\_013290) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PSMC3IP (NM\_013290) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PSMC3IP  
**Synonyms:** GT198; HOP2; HUMGT198A; ODG3; TBPIP  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC201045 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAGTAAAGGCCGGCAGAAGCTGCGCGGGAGCCCGGGATCCTCCTGAGGTACCTGCAGGAGCAGA  
 ACCGGCCCTACAGCTCCCAGGATGTGTTTCGGGAACCTACAGCGGGAACACGGACTGGCAAGCGGTGGT  
 GGTGAAGACGCTGGAGCAGCTGGCGCAACAAGGCAAGATCAAAGAGAAGATGTACGGCAAGCAGAAGATC  
 TATTTTGGGATCAGGACCAGTTTGACATGGTGTAGTGCTGACCTCAAGTCTAGATGGCAAAATCG  
 TGGCCCTCACTGCTAAGGTGCAGAGCTTGACGAGAGCTGCCGCTACATGGAGGCTGAGATGCAGAAAGA  
 AATCCAGGAGTTAAGAAGGAATGCGCTGGCTACAGAGAGAGATTGAAGAACATTAAGCAGCTACCAAT  
 CATGTGACTCCAGAAGAGAAAGAGCAGGTGTACAGAGAGAGGCAGAAGTACTGTAAGGAGTGGAGGAAGA  
 GGAAGAGGATGGCTACAGAGCTGTCTGATGCAATACTTGAAGGATACCCCAAGAGCAAGAAGCAGTTCTT  
 TGAGGAAGTTGGGATAGAGACGGATGAAGATTACAACGTCACACTCCCAGACCCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC201045 protein sequence  
 Red=Cloning site Green=Tags(s)

MSKGRAEAAAGAAGILLRYLQEQRNPYSSQDVFQNLQREHGLGKAVVVKTLLEQLAQQGKIKEKMYGKQKI  
 YFADQDQFDMVSDADLQVLDGKIVAL TAKVQSLQQSCRYMEAEMQKEIQELKKECAGYRERLKNIKAATN  
 HVTPEEKEQVYRERQKYCKEWRKRKRMATELSAILEGYPKSKKQFFEEVGIETDEDYNTLPDP

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

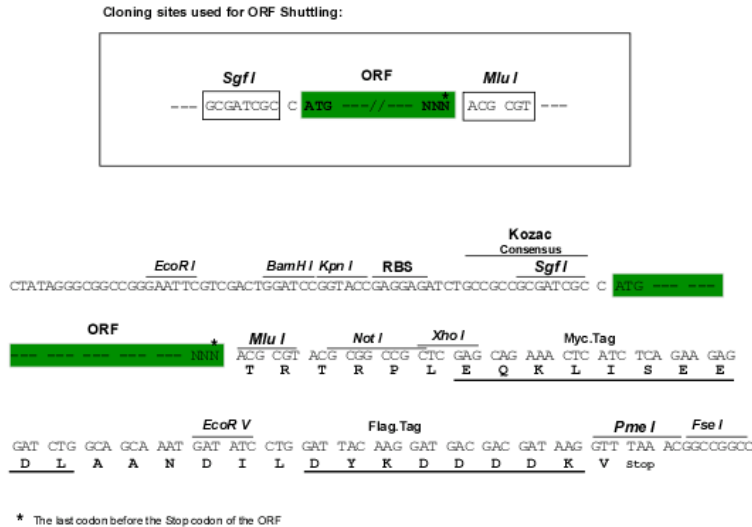


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Chromatograms: [https://cdn.origene.com/chromatograms/mk6409\\_d08.zip](https://cdn.origene.com/chromatograms/mk6409_d08.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_013290

ORF Size: 615 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method: 1. Centrifuge at 5,000xg for 5min.  
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.  
3. Close the tube and incubate for 10 minutes at room temperature.  
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.  
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM\\_013290.6](#), [NP\\_037422.2](#)

RefSeq Size: 1440 bp

RefSeq ORF: 618 bp

Locus ID: 29893

UniProt ID: [Q9P2W1](#)

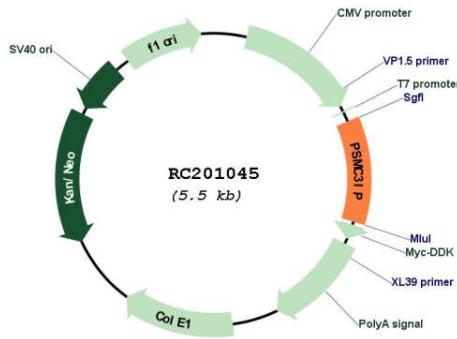
Cytogenetics: 17q21.2

Protein Families: Druggable Genome

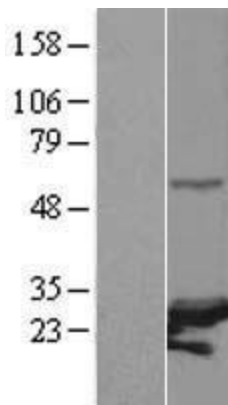
MW: 23.6 kDa

**Gene Summary:** This gene encodes a protein that functions in meiotic recombination. It is a subunit of the PSMC3IP/MND1 complex, which interacts with PSMC3/TBP1 to stimulate DMC1- and RAD51-mediated strand exchange during meiosis. The protein encoded by this gene can also co-activate ligand-driven transcription mediated by estrogen, androgen, glucocorticoid, progesterone, and thyroid nuclear receptors. Mutations in this gene cause XX female gonadal dysgenesis. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Dec 2011]

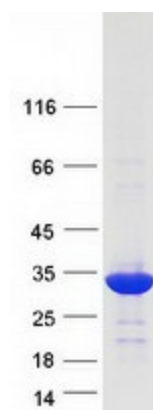
**Product images:**



Circular map for RC201045



Western blot validation of overexpression lysate (Cat# [LY415686]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201045 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PSMC3IP protein (Cat# [TP301045]). The protein was produced from HEK293T cells transfected with PSMC3IP cDNA clone (Cat# RC201045) using MegaTran 2.0 (Cat# [TT210002]).